

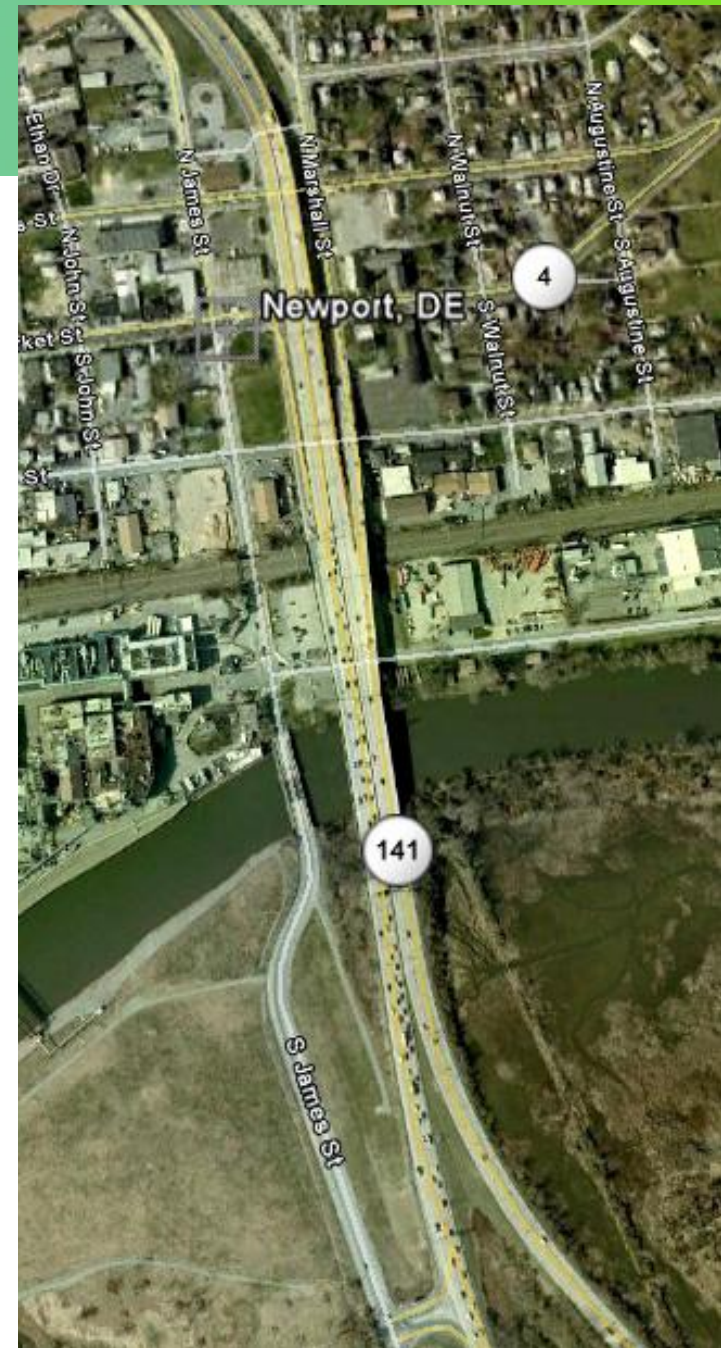
Contract No. 29-074-03 Rehabilitation Br. 1-501 Newport Viaduct

Transportation Management Team Meeting
July 18, 2011



Project Overview

- Contract 29-074-03
- Rehabilitation of BR 1-501 (Newport Viaduct)
- SR 141 over:
 - SR4
 - Local Roads
 - AMTRAK
 - Christina River
- Construction: 810 Days
 - Summer 2011 – Fall 2013



Project Purpose and Reconstruction Activities

- Rehabilitate the Newport Viaduct on SR 141 that connects I-95 with Newport
 - DelDOT will maintain two lanes of traffic in each direction during peak periods throughout construction. Single lane and ramp closures permitted on nights and weekends only.



Bridge Deck



Abutments



Expansion Joint

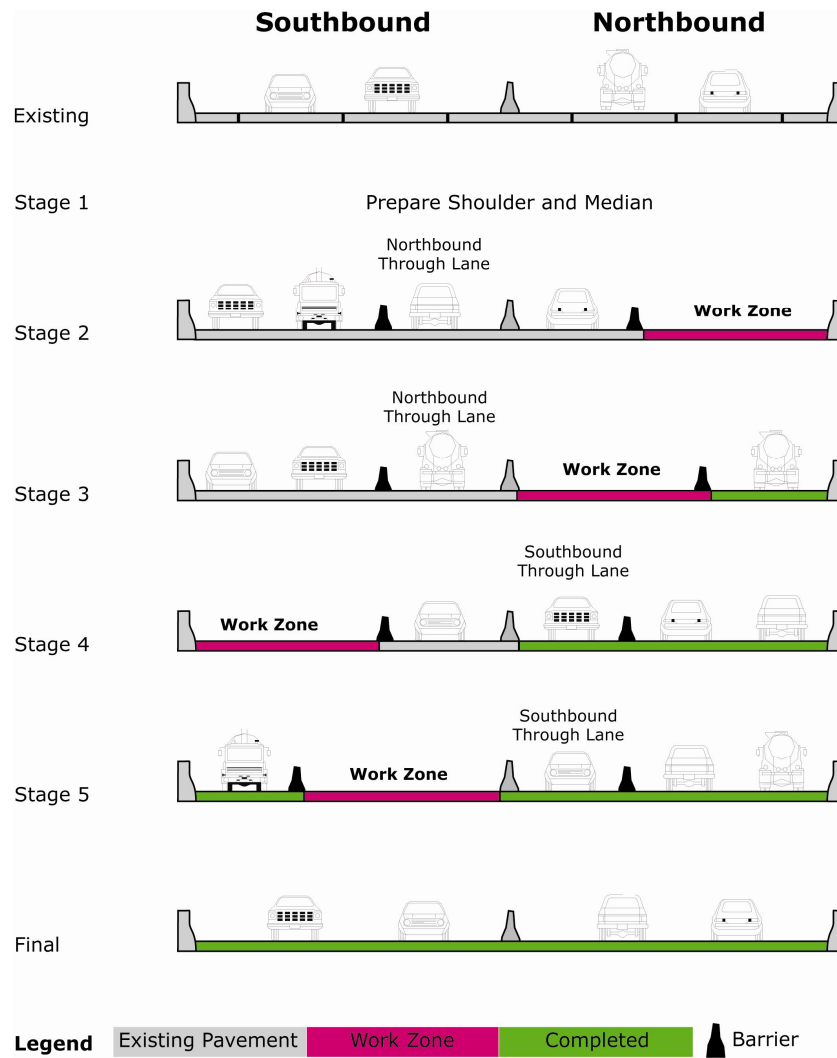


Piers



Bridge Bearing

Traffic Control – Local and Through Lanes

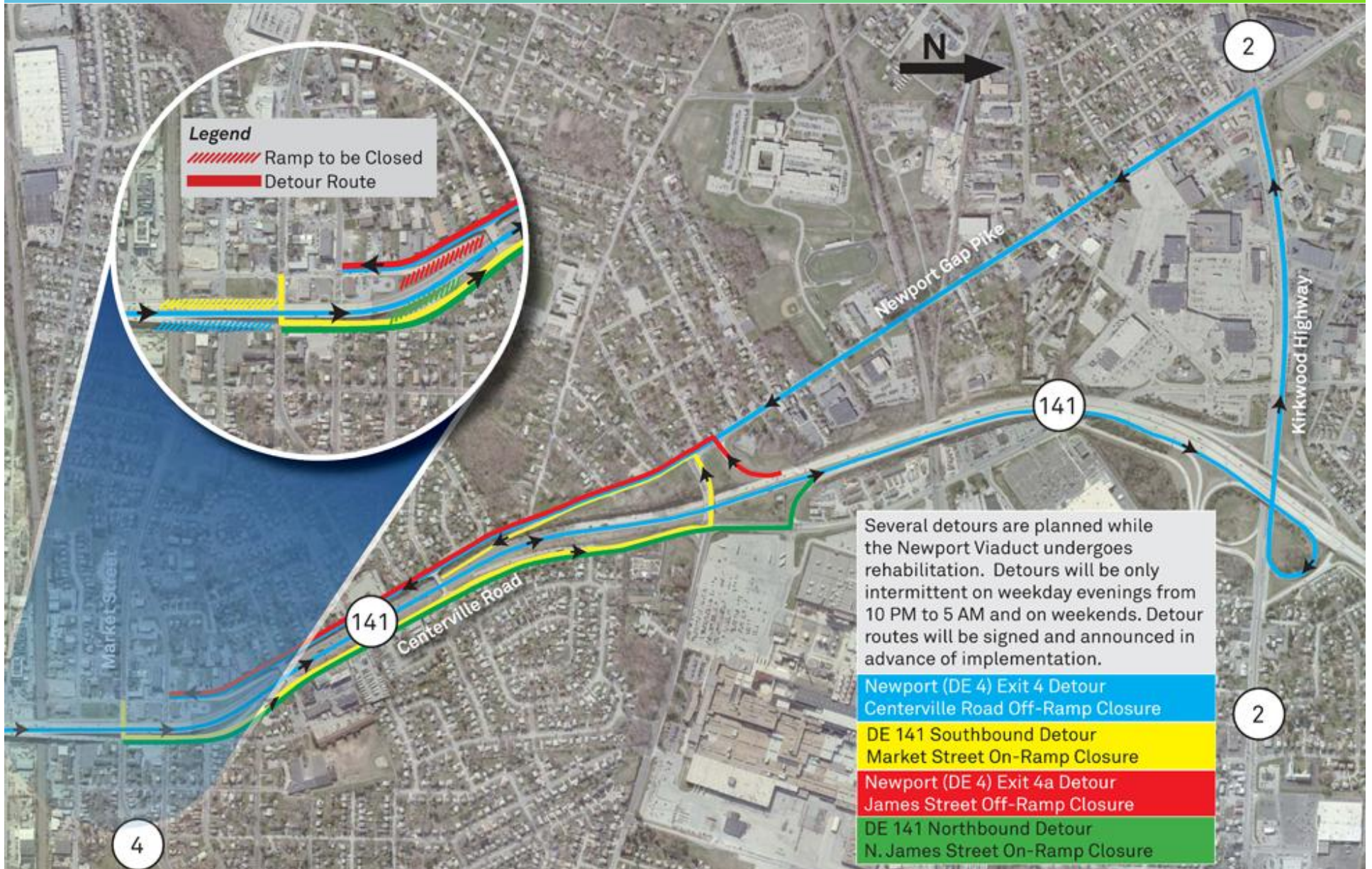


- Maintain 2 Lanes in each direction (including “crossover” lane)
 - As required, reduce to single “crossover” lane in one direction for nighttime and weekend periods.
- Maintain Access to ramps from at least one lane in each direction
 - As required, eliminate access to ramps for nighttime and weekend periods
- Minimum Lane Widths
 - Two Adjacent Lanes – 23’-0” curb-to-curb
 - Single Lane – 13’-0” curb-to-curb

Now – End of July (Approximately): Phase 1A

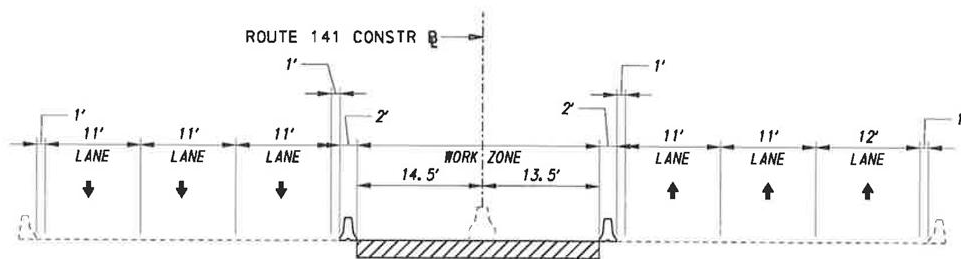
- Strengthening NB & SB outside shoulders
- Catch basin repair work
- Intermittent lane/ramp closures
 - DE-141 NB
 - Right-most through lane from I-95 ramps to Exit 5
 - Exit 4 to DE-4 (Blue detour in effect)
 - Entrance ramp from James Street (Green detour in effect)
 - DE-141 SB
 - Right-most through lane from Exit 5 to Exit 4
 - Exit 4 to DE-4 (Red detour in effect)

Detour Routes

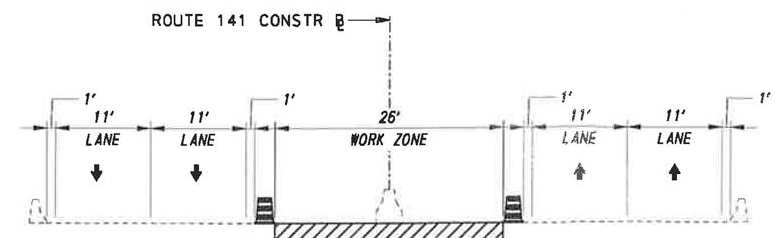


August – October (Approximately): Phase 1B

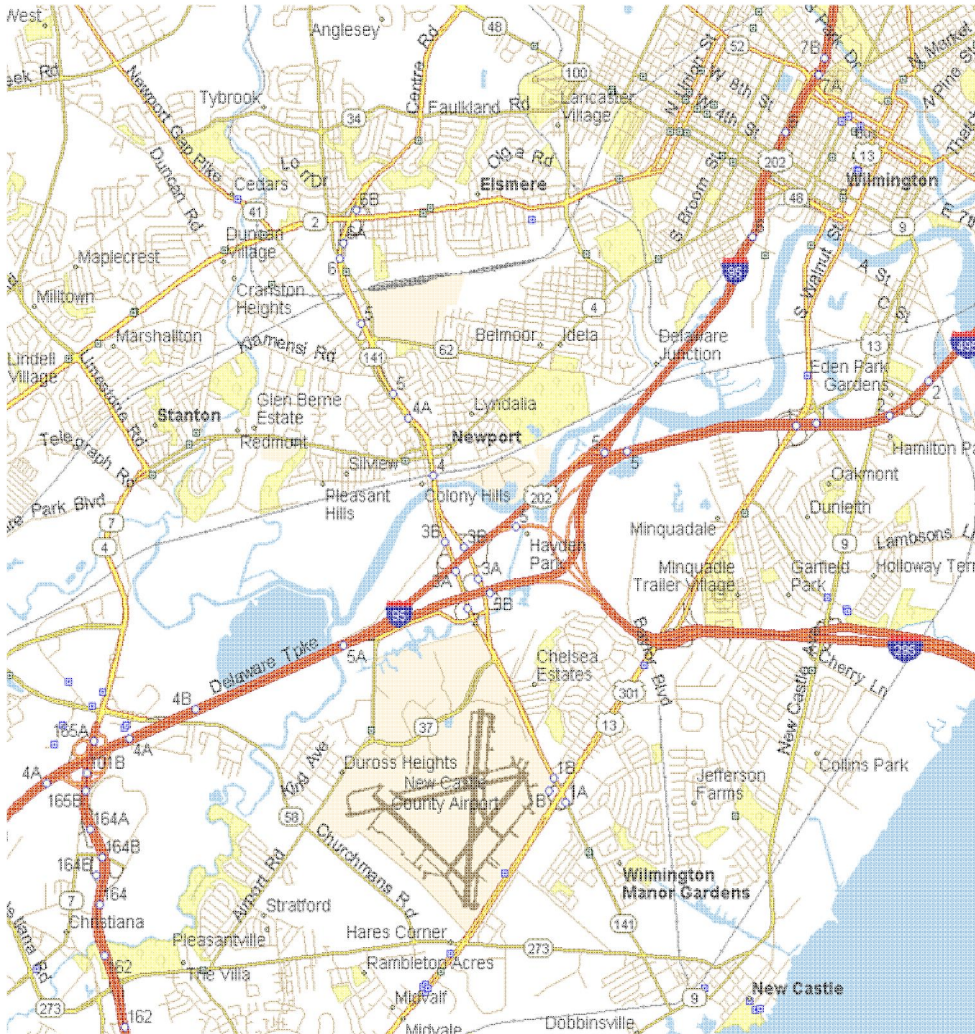
- Strengthening NB & SB inside shoulders from I-95 ramps to Burnside Blvd.
- Constructing NB crossover
- Through lanes shifted to outside shoulders to maintain number of through lanes
- Intermittent lane closures of left-most through lane
 - No ramp closings associated with this phase
 - Emergency turn around area south of DE-141 NB/SB split



TYPICAL SECTION ROUTE 141
STA. 18+00 TO STA. 22+70



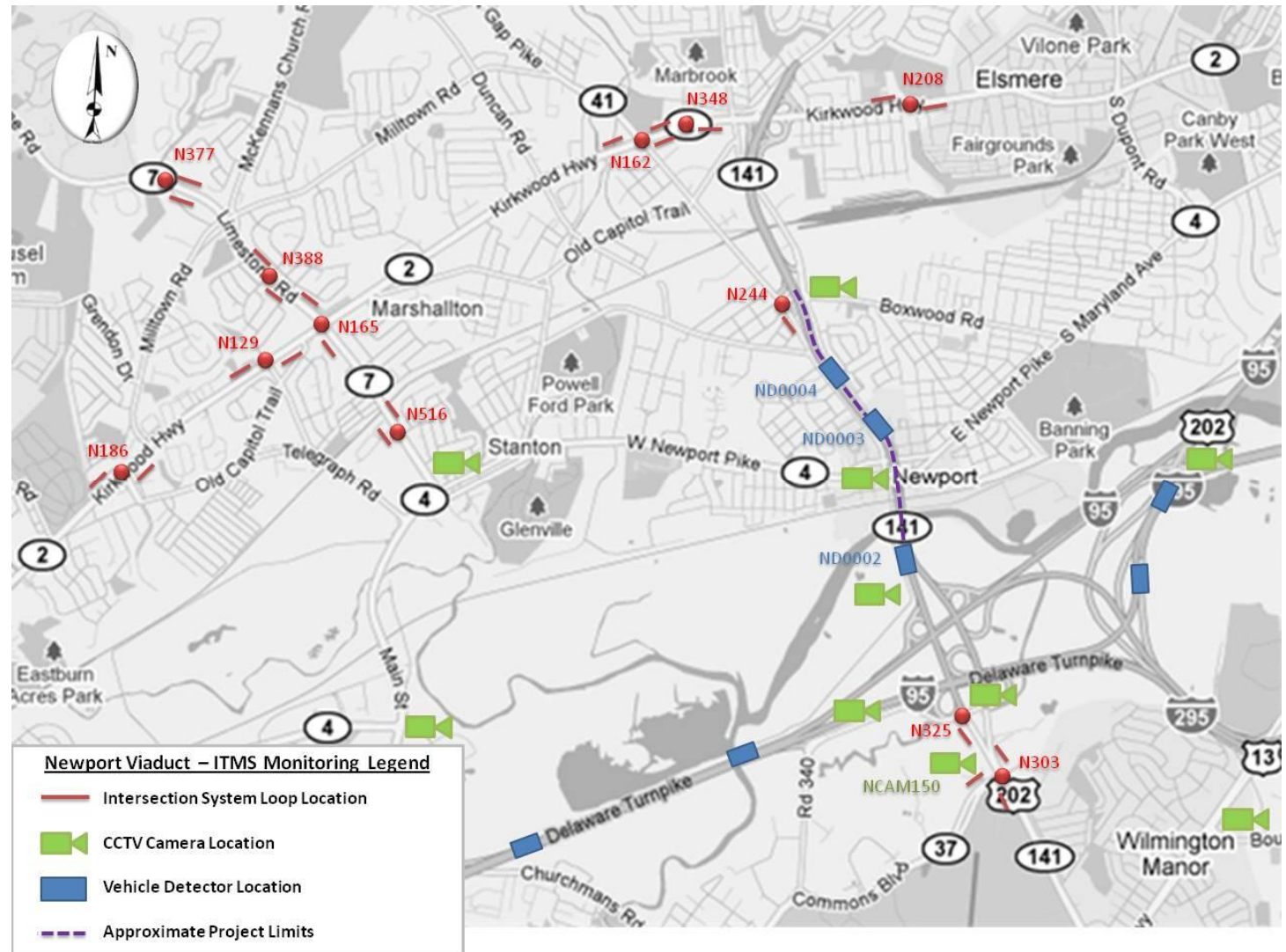
TYPICAL SECTION ROUTE 141
STA. 26+70 TO STA. 38+00



- Crossover Guide Signage
- Speed Management – Trailer Signs
- Speed Management – Traffic Officers
- Portable Message Signs
- Traffic Signal Upgrades
- Traffic Monitoring Cameras
- Traffic Monitoring/Queue Detection Stations

Traffic Monitoring Devices

- System Loops
- CCTV Cameras
- Wavetronix



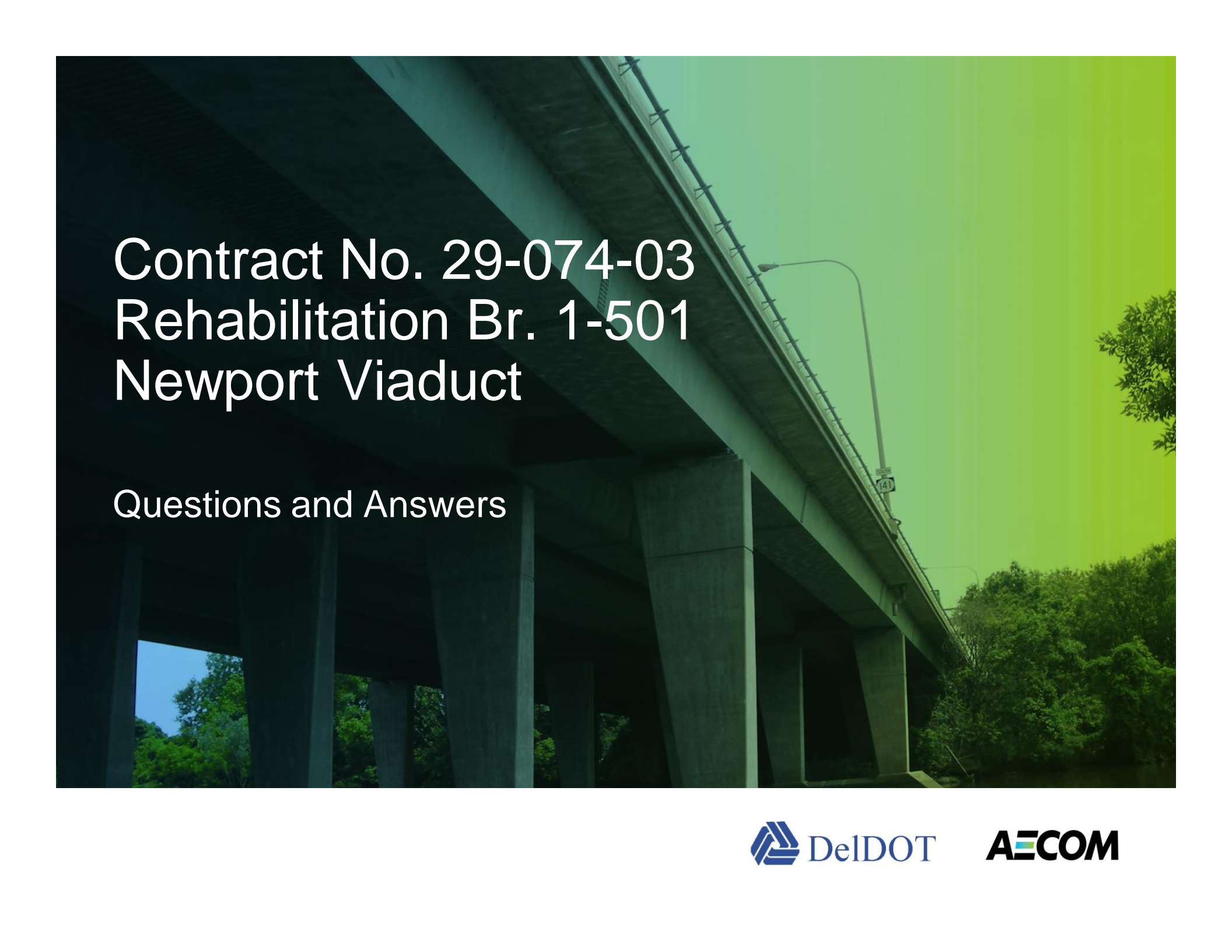
Traffic Mitigation - Integrated Transportation Management System

- Information to Support Travel Decisions
 - Traffic Conditions
 - Advanced notification of construction efforts
 - Planned Detours
 - Website: www.deldot.gov
 - Radio: WTMC (1380 AM)
- Optimal Travel Reliability and Travel Time
 - Traffic signal upgrades (DE-2, DE-4, DE-7, DE-62)
 - Timely response to incidents
 - Safety
 - Speed Monitoring
 - Coordination with emergency service providers



Design Input from TMT

- Glare screens on concrete safety barriers separating directional travel
- Dedicated turn-around area for emergency vehicles at southern end of project limits
- On-Call towing service
- Video feed for Minquas Fire Co.



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Questions and Answers